LABORATORY DATA REVIEW
HURRICANE HARVEY RESPONSE
FORMER US OIL RECOVERY / MCC RECYCLING SITE
PASADENA, TEXAS

Laboratory SDG (Sample Delivery Group): HS17090293
Reviewer: Kristin Drucquer
Date Reviewed: September 12, 2017

This data validation report has been prepared by Ramboll Environ to assess the validity and usability of laboratory analytical data for samples collected from the Chlorine Contact Tanks (CCT) located on the MCC East property at the Former US Oil Recovery/MCC Recycling Site in Pasadena, Texas.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *Quality Assurance Project Plan (QAPP) Site Monitoring and Stabilization, Former US Oil Recovery/MCC Recycling Site (March 2012), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (January 2017), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (January 2017) and *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: SW-846 On-line* updated July 27, 2011. Analytical services for were provided by ALS Environmental (ALS) in Houston, Texas.

Table I: Sample Cross Reference

Field ID	Sample Type	Lab ID	Matrix	Analyses		
				VOCs	SVOC	Total Metals
CCT1-W-20170905-B	SA	HS17090293-01	Water	X	X	X
CCT2-W-20170905-S	SA	HS17090293-02	Water	X	X	X
TB-20170907	TB	HS17090293-03	Water	X		

Notes: SA = Sample
TB = Trip Blank
VOCs = Volatile Organic Compounds by Method SW8260C
SVOCs = Semivolatile Organic Compounds by Method SW8270
Metals = Mercury by SW7470A. Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Nickel, Selenium, and Silver by Method 6020A

The laboratory SDG HS17090354 report was reviewed for precision, accuracy, representativeness, completeness, and comparability relative to the project data quality objectives. All quality control recoveries were within established laboratory control limits with the exception of the following:

- The relative percent difference (RPD) results for SVOCs 4-nitroaniline and 4-nitrophenol in the laboratory control sample and laboratory control sample duplicate were above the control limit of 20 percent (%). The compounds were not detected in the associated samples and the percent recoveries were within the control limits; therefore, the associated data is not affected by the nonconformance.

- The laboratory reported results detected below the laboratory reporting limit. Concentrations that were detected between the laboratory method detection limit and reporting limit were qualified “J” as estimated.
- The recoveries and RPD for chloroethane were outside the QC acceptance criteria for the matrix spike/matrix spike duplicate (MS/MSD) prepared from sample CCT1-W-20170905-B. Chloroethane was not detected in sample CCT1-W-20170905-B; therefore, the result is not affected by a high bias.
- VOC cyclohexane and SVOC benzaldehyde were flagged “n” by the laboratory to indicate that accreditation is not offered by the Texas Commission on Environmental Quality (TCEQ).

It is the opinion of this reviewer that all data is valid and considered usable.